

L Number	Hits	Search Text	DB	Time stamp
1	1	3899571.pn.	USPAT; US-PGPUB	2003/10/30 15:49
-	531	carbonate and Bayer and lime and (oxalate or sulphate or sulfate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/10/28 17:49
-	371	(carbonate and Bayer and lime and (oxalate or sulphate or sulfate)) and (alumina or aluminate or aluminum)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/10/29 16:57
-	7	3120996.pn. 3341286.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/10/29 16:13
-	45	(carbonate and Bayer and lime and (oxalate or sulphate or sulfate)) and (alumina or aluminate or aluminum)	USOCR	2003/10/29 16:43
-	3	"3372985"	USOCR	2003/10/29 16:43
-	166	(carbonate same lime) and Bayer and (alumina or aluminate or aluminum)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/10/29 18:07
-	3	("2806766" "2981600" "4038039").PN.	USPAT	2003/10/29 17:40
-	6	"3134639"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/10/29 18:06
-	91	(carbonate same lime) and Bayer and (alumina or aluminate or aluminum)	USOCR	2003/10/29 18:07

DERWENT-ACC-NO: 1981-96436D

DERWENT-WEEK: 198152

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TITLE: Recovery of soda and sulphate from
alumina prodn. waste
- includes causticisation of
carbonate-sulphate mixt.
with lime and sepn. of calcium
carbonate

INVENTOR: OVSYANNIKO, V I; STYAZHGIN, A K ; TOKAREV, G V

PRIORITY-DATA: 1979SU-2762932 (May 7, 1979)

PATENT-FAMILY:

PUB-NO	PUB-DATE	
LANGUAGE	PAGES	MAIN-IPC
SU 814866 B		March 25, 1981
003	N/A	N/A

INT-CL (IPC): C01D005/00, C01F007/06

ABSTRACTED-PUB-NO: SU 814866B

BASIC-ABSTRACT:

Sodium carbonate and sulphate mixt. obtd. as by-prod. in
Bayer's process of
alumina prodn. is processed to recover sodium sulphate and
soda by dissolving
the mixt. in water, followed by causticisation with lime,
sepn. of calcium
carbonate by filtration and sepn. of sodium sulphate from
the filtrate by
evapn. and salting out.

The purity of the final prod. is increased and the loss of
soda is reduced if
Na₂SO₄ is sepd. until molar ratio of carbonate to sulphate
in soln. is 0.1-0.5.

The resulting soln. is then concd. to 270-320 g/l Na₂O (as caustic soda) after sepn. of the ptd. sodium sulphate. Bul.11/23.3.81. (3pp)

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Basic Abstract Text - ABTX (1):

Sodium carbonate and sulphate mixt. obtd. as by-prod. in Bayer's process of alumina prodn. is processed to recover sodium sulphate and soda by dissolving the mixt. in water, followed by causticisation with lime, sepn. of calcium carbonate by filtration and sepn. of sodium sulphate from the filtrate by evapn. and salting out.

Basic Abstract Text - ABTX (2):

The purity of the final prod. is increased and the loss of soda is reduced if Na₂SO₄ is sepd. until molar ratio of carbonate to sulphate in soln. is 0.1-0.5. The resulting soln. is then concd. to 270-320 g/l Na₂O (as caustic soda) after sepn. of the ptd. sodium sulphate. Bul.11/23.3.81. (3pp)

Derwent Accession Number - NRAN (1):

1981-96436D

Title - TIX (1):

Recovery of soda and sulphate from alumina prodn. waste - includes causticisation of carbonate-sulphate mixt. with lime and sepn. of calcium carbonate

Standard Title Terms - TTX (1):

RECOVER SODA SULPHATE ALUMINA PRODUCE WASTE CAUSTIC CARBONATE SULPHATE
MIXTURE LIME SEPARATE CALCIUM CARBONATE